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PRODUCTION OF RESIN BINDER FOR WATER-BASED FLEXOGRAPHIC INK

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ABSTRACT

PURPOSE: To produce the titled binder excellent in dryability, film gloss, pigment dispersion etc., by emulsion-polymerizing an ethylenically unsaturated monomer in the presence of a specified protective colloid.

CONSTITUTION: A copolymer comprising 30-60mol% styrene, 20-60mol% maleic monoester (e.g., monoethyl maleate), or 20mol% (meth)acrylate (e.g., methyl (meth)acrylate) and 0-20mol% maleic acid and having an acid value of 50-300 is neutralized to a degree of neutralization of the carboxyl groups of the copolymer of 7-100% to obtain a protective colloid comprising a water-soluble salt of the copolymer. 10-1,000pts.wt. ethylenically unsaturated monomer comprising 10-100wt% styrene, 0-50wt% nitrogen-containing ethylenically unsaturated monomer and 0-50wt% other ethylenically unsaturated monomer is emulsion-polymerized at 20-95 deg.C in the presence of 100pts.wt. (in terms of solid matter) above protective colloid.